INFINITE PERIPHERALS
PROVIDER OF CUSTOM RECEIPT PRINTING SOLUTIONS

User's Manual
for BlackBerry Devices

Contents

Manufacturer's End-User License Agreement (EULA) 2

Technical Data 3

About Your Scanner 4

Installing & Replacing Batteries 5

Pairing Scanner 6

- Scanner Pairing 6

ScanPro Overview 9

- ScanPro Features 9

Configuring ScanPro 10

- ScanPro Settings 10
- Line Feed & Carriage Return Option: 10
- Minimize Option: 10
- Exit Option: 10

Using ScanPro 11

- Checking Scanner Connection 11
- Memo Pad Example 12

Status Indicators 13

Barcodes 14

- EAN/UPC 14
- CODE 128 14
- Code-39 14
- ITF (Interleaved 2 of 5) 14

Scanning Barcodes 15

Scanning Operation 16

Troubleshooting 17

Contact Information 18

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Technical Data

Item	Specifications
Bar Codes Supported	UPC/EAN/JAN, Code 128, Code 39
Maximum X Dimension	10 mil
Depth of Field	2.5 in to 5.5 in for 10 mil 2.5 in to 6.0 in for 13 mil 3.0 in to 7.0 in for 17 mil
Memory Capacity	Approximately 500 UPC bar codes
Interface	Bluetooth 1.1
Radio Specifications	Radio: Bluetooth class 2, 1.1 compliant Range: 10 m., 33 ft., line-of-sight
Cable (Optional)	RS-232 compliant, DB9 to Stereo plug
Indicators	LED and Audible
Operating Temperature	5° to 35° C
Storage Temperature	-40° to 70° C
Power	3 AAA Alkaline Batteries
Safety	EN60950-1:2002, IEC 60825-1:1993 +A1(1997) +A2(221)
EMC	EN300328-1:1997, EN301489-1:2000, EN3011489-17:2000, EN55022:1989, EN55024:1998, EN61000-4-2:1995, EN61000-4-3:1997, FCC 47 CFR, Part 15 Class B

Table 1

About Your Scanner

The IP-BC-BT scanner is a breakthrough in affordable wireless laser scanning. The scanner has the scanning performance of more expensive laser scanners, the convenience of hand-held portability, and the advantage of Bluetooth® wireless technology.

Figure 1

Installing & Replacing Batteries

Use only Alkaline batteries in your scanner. Be sure to remove the batteries from the scanner when storing the scanner for more than 30 days.

Installation Steps:

1. Turn the scanner over so that the back faces up.
2. Remove the battery cover by pressing the button at the top of the cover, and moving the cover down.
3. If there are batteries in the scanner, remove them.
4. Insert the new batteries so that the positive end (+) is up on the outside batteries, and down on the middle battery.
5. Replace the battery cover by inserting the tabs at the top of the cover into the slots in the back of the scanner. Slide the cover up.

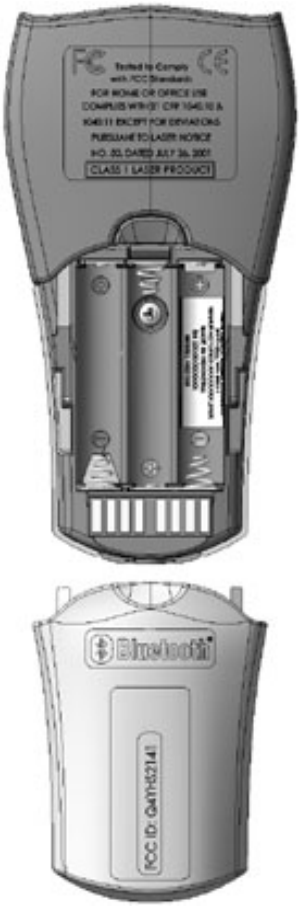


Figure 2

Pairing Scanner

Scanner Pairing

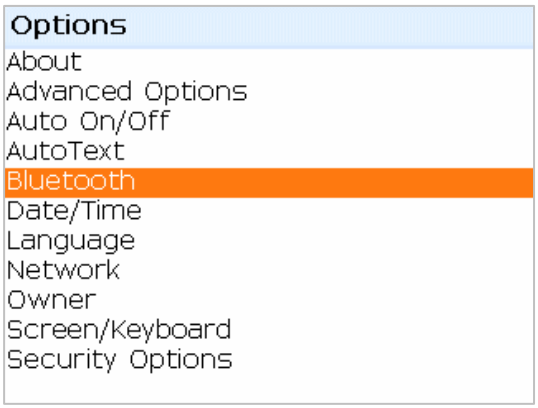
The following steps show how to [Pair] your Bluetooth scanner using the BlackBerry Bluetooth manager application.

Step 1:

Before proceeding with the scanner pairing, install the 3 AAA batteries into the scanner and turn On the scanner.

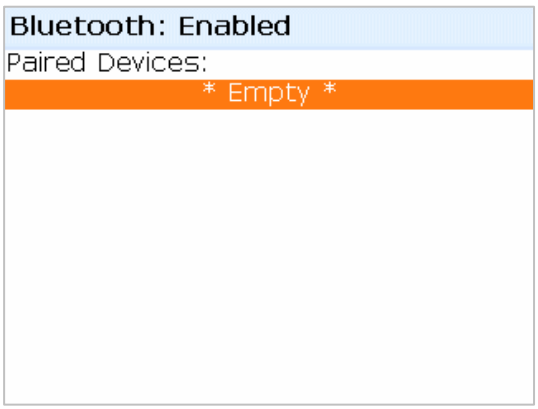
Step 2:

Open the Bluetooth manager as shown in the figure on the right. The Bluetooth manager is found under [Options or Tools] on your device.



Note:

Notice that the [Paired Device] screen on the right indicate that the list of paired device is currently empty.

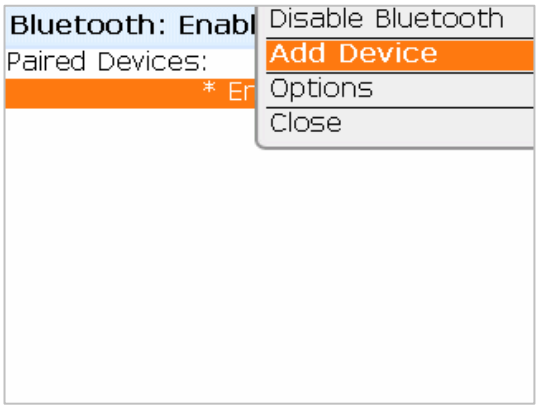


Step 3:

Click on the trackwheel to open the menu as shown in the figure on the right.

Highlight the [Add Device] option as shown in the figure on the right.

Click the trackwheel to select the [Add Device] option.

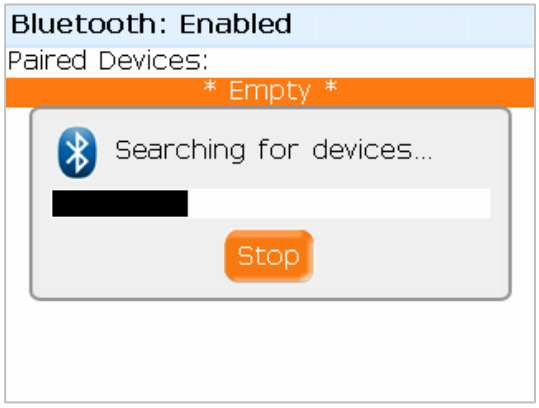


Scanner Pairing Continue

After clicking the trackwheel on the previous page, the BlackBerry Bluetooth manager displays the [Searching for device] screen as shown in the figure below.

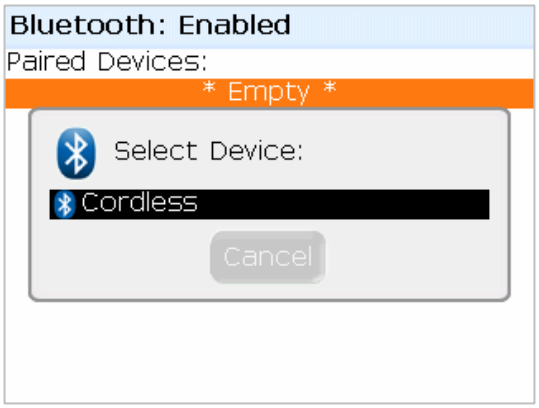
Note:

BlackBerry Manager is searching for all Bluetooth devices. If you have more than one Bluetooth device turned ON, you will need to locate the [scanner] from the resulting list of found devices.



Step 4:

When searching has completed, the [Select Device] message in the figure on the right will be displayed. If you have more than one Bluetooth device turned On, use the trackwheel to highlight the [scanner] as shown.



Step 5:

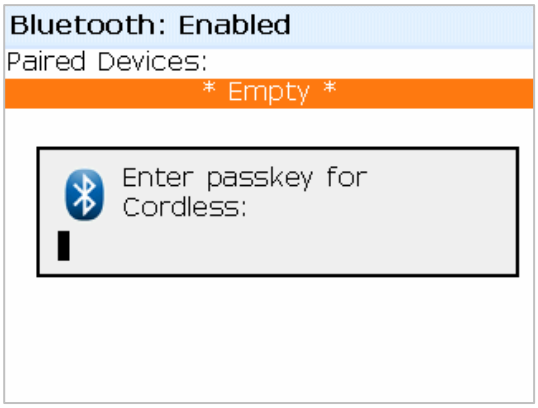
Now click enter after highlighting the scanner device.

Step 6:

After selecting the scanner, the screen in the figure on the right will be displayed.

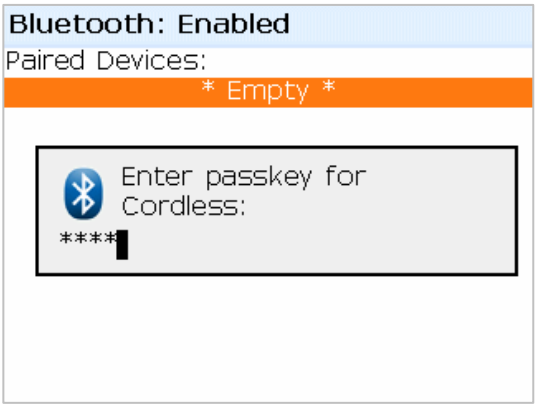
This screen prompts you to enter the [PassKey]. The passkey is the Bluetooh pairing key for the scanner which is [**0000**].

Enter the passkey now and press [Enter].



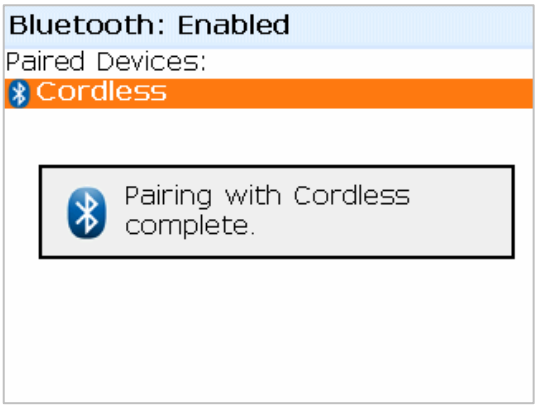
Scanner Pairing Continue

After entering the pairing passkey [**0000**], click on the enter key to finalized the pairing of the scanner.



Note:

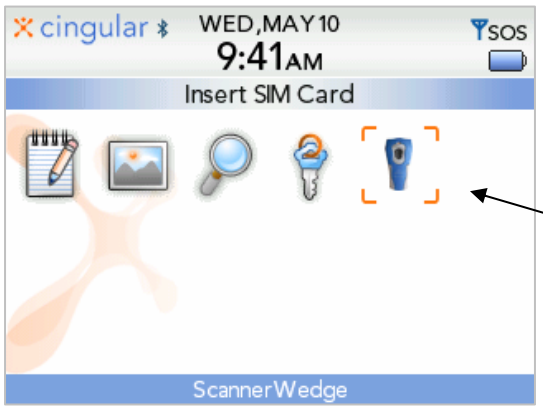
That the Bluetooth manager paired device list now shows the scanner as a paired device.



ScanPro Features

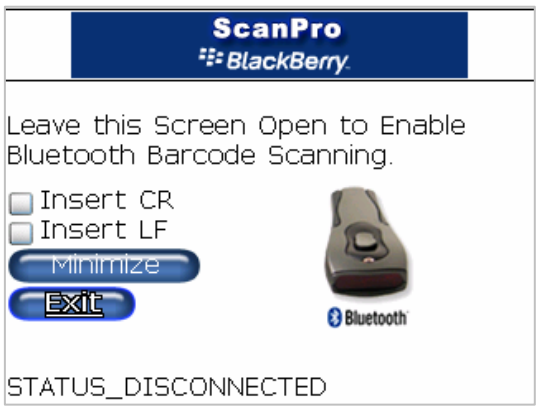
You can begin using ScanPro once the IP-BC-BT scanner has been paired with the device and the ScanPro software installed.

The following briefly explains the various features of the ScanPro application.



App Icon: ScanPro application for IP-BC-BT scanner.

ScanPro Options:



Options:

- [ ] Insert CR (Carriage Return)
- [ ] Insert LF (Line Feed)
- Minimize (Minimize ScanPro App)
- Exit (Exit and Disable ScanPro)

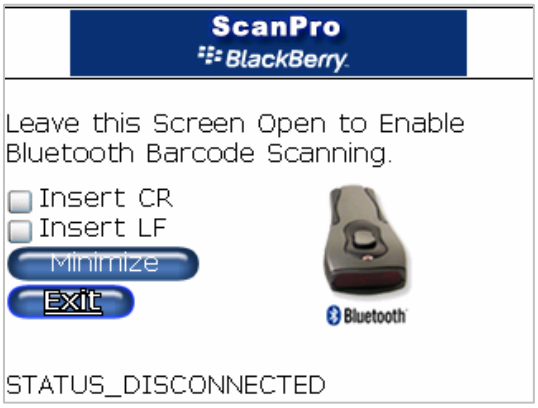
Program Status:

ScanPro Settings

The following describes the various settings in ScanPro software.

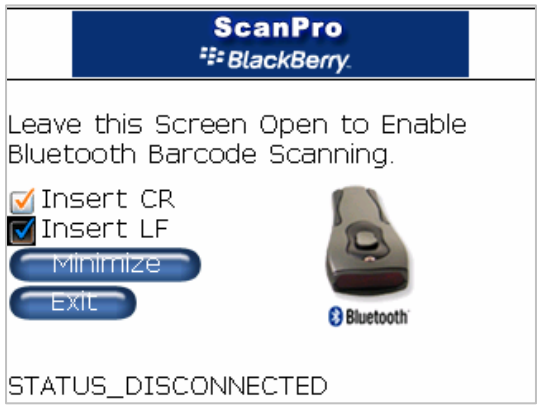
Line Feed & Carriage Return Option:

ScanPro provide option for adding a LF or CR commands at the end of the scanned barcode data. To enable this feature, use the trackwheel to highlight the option to enable then press the device space bar to Enable or Disable the feature.



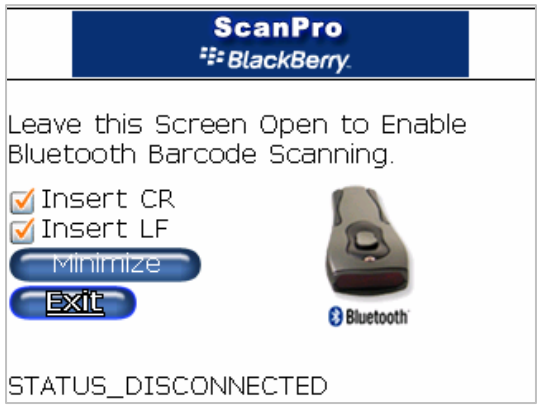
Minimize Option:

Since the primary use of the IP-BC-BT scanner is to scan barcodes into various applications running on the BlackBerry device, ScanPro needs to run in the background. The Minimize option is used to place ScanPro in the background to you can work within other applications.



Exit Option:

To stop ScanPro from reconnecting with the IP-BC-BT scanner when not in use, use the Exit option to terminate the ScanPro application.

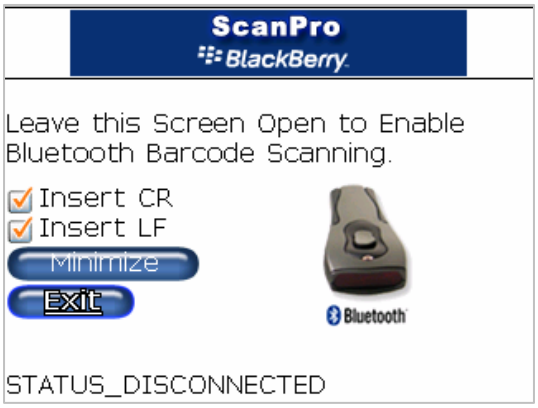


Checking Scanner Connection

The [Scan Test] options can be used to verify that the scanner and ScanPro are properly working together.

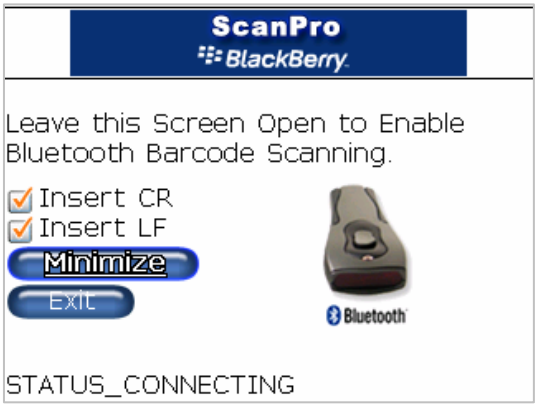
Main Screen:

- Notice that the current ScanPro status is DISCONNECTED as indicated in the image on the right.



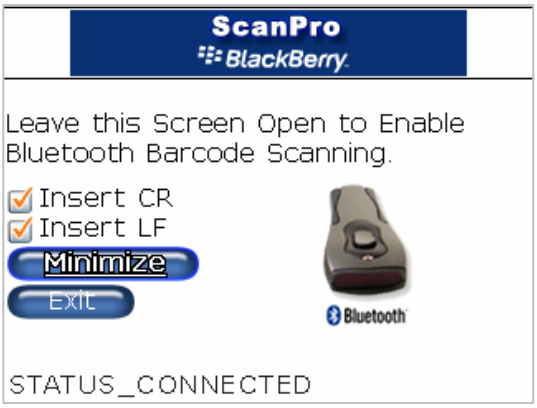
Connecting:

- Press the scan button on the IP-BC-BT scanner to turn it on. Notice that the ScanPro status now indicates CONNECTING as shown in the figure on the right.



Connected:

- When the scanner is within range, ScanPro will automatically connect to scanner as shown in the figure on the right.



Memo Pad Example

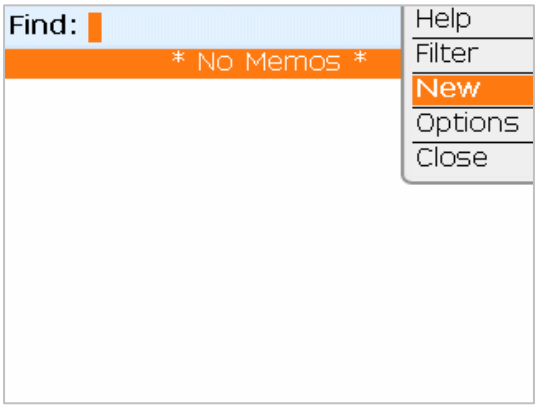
Note that ScanPro needs to be running in the background in order to properly manage barcodes scanned.

Main Screen:

- Select– [Minimize] option to hide the ScanPro main screen and keep ScanPro running in the back-ground.

Memo Pad:

- Open Memo Pad and create a new memo.



Scanning Barcodes:

- Select a barcode to scan and start scanning.

Note that consecutive barcode scanned is placed on the next line. This is due to enabling LF or CR options in ScanPro.

Status Indicators

Scanner status:

The scanner uses the visual and audible status indicators to signal various conditions.

The following table explains the different visual and audible indicators.

Event	Green LED	Beeper
Discoverable Mode	Blinks two times every two seconds	None
Connected	Blinks once every two seconds	None
Sleeping	Does not blink	None
Good Scan	Does not blink	Beeps once
Memory Full	Blinks 3 times	Beeps three times
Downloading	Blinks 2 times per second while the data is downloading	None
Download Complete	On for 300m sec	Three beeps that descend in pitch
Invalid Command	None	Single beep, lower pitch and longer than the Good Scan beep
System Error	None	Beeps five times. This cannot be disabled

Table 2

Bar Code Symbologies Supported

The IP-BC-BT scanner support a number of different bar code symbols and it can return a code indicating the type of symbol that was scanned (either AIM Code or NCR Identifier). Different symbols are often used for different purposes. For example, most retail products use a UPC code. The case containing that same product probably uses an ITF (Interleaved 2 of 5) bar code. Knowing which type of symbol was scanned can be used to determine if the data is from a case or an individual product. The IP-BC-BT supports the following barcode symbol and options:

EAN / UPC

These are the mostly commonly used bar code symbol. UPC and EAN are used to identify nearly all retail products. The IP-BC-BT supports EAN-13, EAN-8, UPC-A, UPC-E, and add-on symbols (both 2 and 5-digit add-ons). The IP-BC-BT can also combine the add-on symbols with the base barcodes.

CODE 128

The name CODE 128 derives from its ability to encode 128 different data characters at a high density. The IP-BC-BT supports Function Code 1 and 2 options, but does not support the concatenation feature (pad character).

Code-39

Code-39, or Code 3 of 9, is used extensively in military and medical applications. The IP-BC-BT supports Code-39 standard and checksum options (including stripping the checksum character). Full ASCII conversion and concatenation features are not supported.

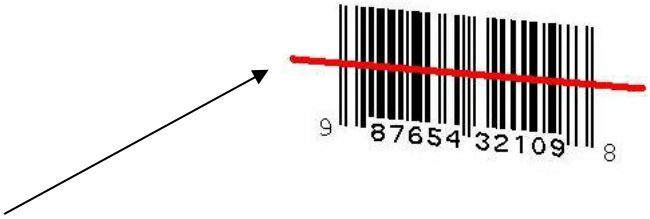
ITF (Interleaved 2 of 5)

ITF is used extensively in warehousing applications and many retail products use ITF bar codes on product cases (individual items use UPC but ITF is often used on the case). The IP-BC-BT supports standard and checksum options (including stripping the checksum character). Minimum and Maximum decode lengths are also supported. Note that Maximum decode length does not provide any additional barcode decoding integrity. Full ASCII conversion and concatenation features are not supported.

Scanning Barcodes

The IP-BC-BT Cordless Bluetooth Scanner operates from 3 AAA batteries that will supply over 76,000 continuous scans or 100 scans/day for 8 months (16,000 scans). In order to conserve power the scanner enters standby mode after a programmable a connect time of no activity and drops the Bluetooth connection. The default connect time is 60 seconds. When scanning, the device wakes up and the Bluetooth radio enters Discovery mode and waits for the host to reconnect. When using the host detects the scanner in discovery mode it quickly re-connects and transmits the data.

Proper scanning of barcodes is shown in the figure below. Note that the scan beam crosses the width of the barcode.



Scan beam crosses the width of the barcode and extends beyond the barcode left and right edges.

Scanning Operation

The IP-BC-BT Cordless Bluetooth Scanner operates in two modes: real-time and store-and-forward.

Real-time is when the scanner is connected to a Bluetooth host device. The scanner uploads the bar codes as you scan them.

Batch mode is when the scanner is disconnected of out of range. It stores the bar codes in memory. When the scanner is moved back into range, the scanner automatically connects to the host device and uploads the stored bar codes.

Three beeps indicate the scanner's memory is full. If the occurs, move the scanner back into range of the Bluetooth host device and wake up the scanner by pushing the button. When connected, the scanner automatically uploads the saved bar codes and clears its memory.

Troubleshooting

If you're having problems refer to the table below for possible causes.

Problem	Possible Cause
Scanner will not turn On.	1. Replace batteries if using Alkaline.
Scanner turns On but turns Off immediately within seconds of being turned On.	1. Replace batteries if using Alkaline.
Application indicates scanner not connected.	1. Verify that the handset is properly paired to Bluetooth scanner. 2. Verify that the handset Bluetooth is turned On. 3. Reset the handset and try again.

Table 4

Contact Information

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